



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Juliet Caroline Switzer
Group Art Unit : 1634
Applicants : Ulrich Brinkmann et al.
Application No. : 10/627,253
Confirmation No. : 4194
Filed : July 24, 2003
For : POLYMORPHISMS IN THE HUMAN GENE FOR THE
MULTIDRUG RESISTANCE-ASSOCIATED PROTEIN 1
(MRP-1) AND THEIR USE IN DIAGNOSTIC AND
THERAPEUTIC APPLICATIONS

New York, New York
August 22, 2006

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SECOND REQUEST FOR CORRECTED FILING RECEIPT

Sir:

On December 22, 2003, applicants filed a Request for Corrected Filing Receipt, together with a corrected Application Data Sheet (copies enclosed).

In that Request, applicants attempted to correct the spelling of inventor, Mornhinweg's first name. It is "Esther" not "Ester". The Request also attempted to correct the number of the European PCT application from which this application is a continuation. It is "PCT/EP02/00796" not " PCT/EP02/00794".

BEST AVAILABLE COPY

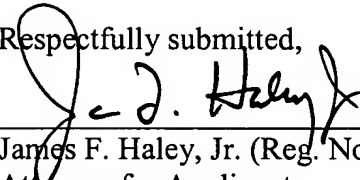
Application No.: 10/627,253
Second Request for Corrected Filing Receipt dated August 22, 2006

A marked-up version of the original Filing Receipt was enclosed with that Request. However, when the United States Patent and Trademark Office mailed to applicants an Updated Filing Receipt on April 20, 2004 ((copy enclosed), it did not correct either error.

Applicants request that the errors be corrected and a second Updated Filing Receipt be issued.

Applicants believe that no fee is due. However, if for any reason a fee is due, the Director is hereby authorized to charge payment of any fees required in connection with this Request to Deposit Account No. 06-1075, Order No. 003747-0082.

Respectfully submitted,



James F. Haley, Jr. (Reg. No. 27,794)
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Not yet assigned
Group : 1645
Applicants : Ulrich Brinkmann et al.
Application No. : 10/627,253
Confirmation No. : 4194
Filed : July 24, 2003
For : POLYMORPHISMS IN THE HUMAN GENE FOR
THE MULTIDRUG RESISTANCE-ASSOCIATED
PROTEIN 1 (MRP-1) AND THEIR USE IN
DIAGNOSTIC AND THERAPEUTIC
APPLICATIONS

New York, New York
December 22, 2003

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT AND
SUBMISSION OF SUBSTITUTE APPLICATION DATA SHEET

Sir:

Applicants request correction of the Filing Receipt issued on October 21, 2003, in the above-identified application. The errors on it are the fault of applicants' attorneys.

The name of one of the inventors, Esther Mornhinweg, is spelled incorrectly on the October 21, 2003 Filing Receipt. On the originally-filed Application Data Sheet, Esther Mornhinweg's first name was incorrectly spelled as "Ester Mornhinweg." The correct spelling of the inventor's name is "Esther Mornhinweg."

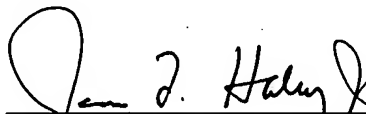
EV620809005US

The information in the "Domestic Priority Data as claimed by applicant" incorrectly recites "PCT/EP02/00794," instead of "PCT/EP02/00796." On the originally-filed Application Data Sheet, the priority data was also incorrect in its recitation of the EP PCT application. The data was correct in the context of the original EP priority application (01101651.6, filed January 26, 2001). The correct application of which United States application 10/627,253 is a continuation is PCT/EP02/00796, filed January 25, 2002. A copy of the first page of the published international application is enclosed (see Tab A).

Applicants submit herewith a substitute Application Data Sheet (see Tab B) that recites the correct spelling of Esther Mornhinweg's name and correctly recites the priority document as "PCT/EP02/00796." Applicants request that the substitute Application Data Sheet replace the originally-filed Application Data Sheet.

Applicants request that the Filing Receipt be corrected as indicated on the enclosed copy (see Tab C) and that a new receipt be issued.

Respectfully submitted,



James F. Haley, Jr. (Reg. No. 27,794)

Margaret A. Pierri (Reg. No. 30,709)

Attorneys for Applicants

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/627,253	07/24/2003	1645	1610	VOS-42 CON	3	42	1

CONFIRMATION NO. 4194

UPDATED FILING RECEIPT



OC000000012398953

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 FISH & NEAVE
 1251 AVENUE OF THE AMERICAS
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APR 27 2004

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Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Ulrich Brinkmann, Weilheim, GERMANY;
 Sven Hoffmeyer, Eberfing, GERMANY;
~~Esther Mornhinweg, Weilheim, GERMANY;~~

*Esther***Domestic Priority data as claimed by applicant**

This application is a CON of PCT/EP02/00794 ⁶ 01/25/2002

Foreign Applications

EUROPEAN PATENT OFFICE (EPO) 01101651.6 01/26/2001

If Required, Foreign Filing License Granted: 10/21/2003

Projected Publication Date: 07/29/2004

Non-Publication Request: No

Early Publication Request: No

EV620809005US

Title

Polymorphisms in the human gene for the multidrug resistance-associated protein 1 (MRP-1) and

their use in diagnostic and therapeutic applications

Preliminary Class

435

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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10/627,253	07/24/2003	1645	1480	VOS-42 CON	3	42	1

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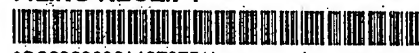
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OCT 24 2003

FISH & NEAVE - PATENT DEPT.
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 NOTED BY SVP

CONFIRMATION NO. 4194

FILING RECEIPT



OC000000011073751

Date Mailed: 10/21/2003

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Ulrich Brinkmann, Weilheim, GERMANY;
 Sven Hoffmeyer, Eberling, GERMANY;
 Ester Mornhinweg, Weilheim, GERMANY;
 Esther

Domestic Priority data as claimed by applicant

This application is a CON of PCT/EP02/0079⁶ 01/25/2002

Foreign Applications

EUROPEAN PATENT OFFICE (EPO) 01101651.6 01/26/2001

If Required, Foreign Filing License Granted: 10/21/2003

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title: Polymorphisms in the human gene for the multidrug resistance-associated protein 1 (MRP-1) and

their use in diagnostic and therapeutic applications

Preliminary Class

435

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 August 2002 (01.08.2002)

PCT

(10) International Publication Number
WO 02/059142 A2(51) International Patent Classification⁷: C07K 7/00

(21) International Application Number: PCT/EP02/00796

(22) International Filing Date: 25 January 2002 (25.01.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
01101651.6 26 January 2001 (26.01.2001) EP(71) Applicant (for all designated States except US): EPIDAU-
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(72) Inventors; and

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hann-Baur-Str. 12, 82362 Weilheim (DE).(74) Agent: VOSSIUS & PARTNER; Siebertstraße 4, 81675
Munich (DE).(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZM, ZW.(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,
GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent
(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that reportFor two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.(54) Title: POLYMORPHISMS IN THE HUMAN GENE FOR THE MULTIDRUG RESISTANCE-ASSOCIATED PROTEIN 1
(MRP-1) AND THEIR USE IN DIAGNOSTIC AND THERAPEUTIC APPLICATIONS

(57) Abstract: The present invention relates to a polymorphic MRP-1 polynucleotide. Moreover, the invention relates to genes or vectors comprising the polynucleotides of the invention and to a host cell genetically engineered with the polynucleotide or gene of the invention. Further, the invention relates to methods for producing molecular variant polypeptides or fragments thereof, methods for producing cells capable of expressing a molecular variant polypeptide and to a polypeptide or fragment thereof encoded by the polynucleotide or the gene of the invention or which is obtainable by the method or from the cells produced by the method of the invention. Furthermore, the invention relates to an antibody which binds specifically the polypeptide of the invention. Moreover, the invention relates to a transgenic non-human animal. The invention also relates to a solid support compressing one or a plurality of the above mentioned polynucleotides, genes, vectors, polypeptides, antibodies or host cells. Furthermore, methods of identifying a polymorphism, identifying and obtaining a pro-drug or drug or an inhibitor are also encompassed by the present invention. In addition, the invention relates to methods for producing of a pharmaceutical composition and to methods of diagnosing a disease. Further, the invention relates to a method of detection of the polynucleotide of the invention. Furthermore, comprised by the present invention are a diagnostic and a pharmaceutical composition. Even more, the invention relates to uses of the polynucleotides, genes, vectors, polypeptides or antibodies of the invention. Finally, the invention relates to a diagnostic kit.

WO 02/059142 A2

INVENTOR INFORMATION

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APPLICATION INFORMATION

Title Line One:: POLYMORPHISMS IN THE HUMAN GENE FOR THE
Title Line Two:: MULTIDRUG RESISTANCE-ASSOCIATED PROTEIN
Title Line Three:: 1 (MRP-1) AND THEIR USE IN DIAGNOSTIC AN
Title Line Four:: D THERAPEUTIC APPLICATIONS
Total Drawing Sheets:: 3
Formal Drawings?: No
Application Type:: Utility
Docket Number:: VOS-42 CON
Secrecy Order in Parent Appl.?: No

REPRESENTATIVE INFORMATION

Representative Customer Number:: 1473
Registration Number One:: 27794
Registration Number Two:: 30709

Registration Number Three:: 38479
Registration Number Four:: 42800
Registration Number Five:: 48976

CONTINUITY INFORMATION

This application is a:: CONTINUATION OF
> Application One:: PCT/EP02/00796
Filing Date:: 01-25-2002

PRIOR FOREIGN APPLICATIONS

Foreign Application One:: 01101651.6
Filing Date:: 01-26-2001
Country:: EP
Priority Claimed:: Yes

Source:: PrintEFS Version 1.0.1